FORM PTO-1449 (REV. 7-80) (Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. RD-25,993

SERIAL NO. ~~10/046,607~~ 09/271,654

Applicant: Barry Lee-Mean Yang et al.

Filing Date: March 17, 1999

Group: ~~2761~~ 1762

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✓	AA	3 6 2 5 8 4 8	12/07/71	Snaper	204	192	
✓	AB	5 5 7 1 3 3 2	11/05/96	Halpern	118	723 HC	
	AC						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION No
AL	3 0 1 4 2 5 8	10/15/81	Germany				✓
✓ AM	0 8 8 7 4 3 7	12/30/98	EPO			in English	
AN							
AO							
AP							

OTHER INFORMATION (*Including Author, Title, Date, Pertinent pages. Etc.*)

✓	AR	Database WPI, Derwent Publications Class A09, AN 1993-411476 XP-002138601, "Light Source Apparatus for Weather Resistant Testing of Organic Material", JP 05312715 A, (1993). abstract 11/22/93
	AS	
	AT	5/23/03

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✓	AA	3 1 6 1 6 1 5	12/15/64	Goldberg			
✓	AB	3 2 2 0 9 7 3	11/30/65	Goldberg			
✓	AC	3 3 1 2 6 5 9	04/04/67	Kurkjy et al.			
✓	AD	3 3 1 2 6 6 0	04/04/67	Kurkjy et al.			
✓	AE	3 3 1 3 7 7 7	04/11/67	Elam et al.			
✓	AF	3 5 7 6 6 5 6	04/27/71	Webb et al.			
✓	AG	3 6 6 6 6 1 4	06/24/69	Snedeker et al.			
✓	AH	3 9 8 9 6 7 2	11/02/76	Vestergaard			
✓	AI	4 1 9 4 0 3 8	03/18/80	Baker et al.			
✓	AJ	4 2 0 0 6 8 1	04/29/80	Hall et al.			
✓	AK	4 2 1 0 6 9 9	07/01/80	Schroeter et al.			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION No
✓	AL	9 2 1 3 5 1 7	02/04/92	PCT Mitchell et al				
✓	AM	8 9 0 1 9 5 7	08/22/88	PCT Reed et al				
✓	AN	9 7 1 3 8 0 2	10/11/96	PCT Hu et al				
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	AP							

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✓	AR	S. Anders et al., "Formation of Metal-Oxides by Cathodic Arc Deposition," 76-77 Surface and Coatings Technology, 167-73 (1995). No month
✓	AS	H. Bolt et al., "Gradient Metal - a-C:H Coatings Deposited From Dense Plasma by a Combined PVD/CVD Process", 98 Surface and Coatings Technology 1518-1523 (1998). 6 pages
✓	AT	D.E. Brodie et al., "Characterization of ZnO for the Fabrication of Conductor-Insulator-Semiconductor (CIS) Solar Cells", Conf. Proc. for IEEE 14th Photovoltaic Spec. Conf. 468-471 (Jan 7-10, 1980). No month

EXAMINER	DATE CONSIDERED
	6/18/03 5/23/03

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	BA	4,224,378	09/23/80	Schroeter et al.			
✓	BB	4,242,381	12/30/80	Goossens et al.			
✓	BC	4,454,275	06/12/84	Rosenquist			
✓	BD	4,842,941	06/27/89	Devins et al.			
✓	BE	4,871,580	10/03/89	Schram et al.			
✓	BF	4,927,704	05/22/90	Reed et al.			
✓	BG	4,948,485	08/14/90	Wallsten et al.			
✓	BH	5,008,148	04/16/91	Thurm et al.			
✓	BI	5,051,308	09/24/91	Reed et al.			
✓	BJ	5,156,882	10/20/92	Rzad et al.			
✓	BK	5,298,587	03/29/94	Hu et al.			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION No
	BL							
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Applicant: Barry Lee-Mean Yang et al.

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	CA	5 3 2 0 8 7 5	06/14/94	Hu et al.			
	CB	5 4 3 3 7 8 6	07/18/95	Hu et al.			
	CC	5 4 6 3 0 1 3	10/31/95	Tokuda et al			
	CD	5 4 8 0 7 2 2	01/02/96	Tomonaga et al.			
	CE	5 4 9 4 7 1 2	02/27/96	Hu et al.			
	CF	5 5 1 0 4 4 8	04/23/96	Fontane et al.			
	CG	5 6 1 4 2 4 8	03/25/97	Schiller et al.			
	CH	5 6 3 5 0 8 7	06/03/97	Schiller et al.			
	CI	5 7 1 8 9 6 7	02/17/98	Hu et al.			
	CJ						
	CK						

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FOREIGN PATENT DOCUMENTS

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	CL							
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	CN							
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	CP							

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RD-25,993	09/046,607 ~~09/271,654~~
Applicant: Barry Lee-Mean Yang, et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT-- LIST OF ITEMS

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✓	AU	D.A. Gerdeman and N.L. Hecht, Arc Plasma Technology in Materials Science, 1-700 (1972). pages no month
✓	AV	S. Jager et al., "Comparison of Transparent Conductive Oxide Thin Films Prepared by A.C. and D.C. Reactive Magnetron Sputtering," 98 Surface and Coatings Technology, 1304-1314 (1998). pages no month
✓	AW	Jianhua Hu and Roy G. Gordon, "Deposition of Boron Doped Zinc Oxide Films and Their Electrical and Optical Properties," 139 J. Electrochem. Soc., 2014-2022 (1992). Vol. 139, No. 7, pages July
✓	AX	Z.-C. Jin et al., Optical Properties of Sputter-Deposited ZnO:Al Thin Films, 64 J. Appl. Phys., 5117-5131 (1988). pages Nov. 15, 64(10),
✓	AY	R.A. MacGill et al., Cathodic Arc Deposition of Copper Oxide Thin Films, 78 Surface and Coatings Technology, 168-72 (1996). no month
✓	AZ	S. Major et al., "Electrical and Optical Transport in Undoped and Indium-doped Zinc Oxide Films," 1, J. Mater. Res., 300-310 (1986). Mar/Apr 1(2), pages
✓	BU	S. Major et al., "Highly Transparent and Conducting Indium-Doped Zinc Oxide Films by Spray Pyrolysis," 108, Thin Solid Films, 333-340 (1983). pages no month
✓	BV	S. Maniv et al., "Transparent Conducting Zinc Oxide and Indium-Tin Oxide Films Prepared by Modified Reactive Planar Magnetron Sputtering," A1 J. Vac. Sci. Tech., 1370-1375 (1983) (3), pages July/Sept
✓	BW	Tadatsugu Minami et al., Group III Impurity Doped Zinc Oxide Thin Films Prepared by RF Magnetron Sputtering, 24, Japanese J. of Appl. Phy, L781-L784, (1985) Vol. 24, No. 10, pages oct
✓	BX	Tadatsugu Minami et al., Highly Conductive and Transparent Silicon Doped Zinc Oxide Thin Films Prepared by RF Magnetron Sputtering, ~~25~~ Japanese J. of Appl. Phys, L776-L779, (1986). Sept Vol. 25, No. 9, pages
✓	BY	M. Miyazaki and E. Ando, "Durability Improvement of Ag-Based Low-Emissivity Coatings," 178 J. Non-Crystalline Solids, 245-249 (1994). pages No month
✓	BZ	C.X. Qiu and I. Shih, "Tin- and Indium-Doped Zinc Oxide Films Prepared by RF Magnetron Sputtering," 13 Solar Energy Materials, 75-84 (1986) page no month

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EXAMINER: M. L. Pollock

DATE CONSIDERED 5/23/03 6/18/2003

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Applicant: Barry Lee-Mean Yang, et al.

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✓	CU	D. Raviendra and J.K. Sharma, "Electroless Deposition of Cadmium Stannate, Zinc Oxide, and Aluminum-Doped Zinc Oxide Films," ~~58~~ J. Appl. Phys., 838-844 (1985). 58(2), pages July
✓	CV	R.E.I. Schropp et al., "Transparent and Conductive Thin Films of ZnO for Photovoltaic Applications Prepared by RF Magnetron Sputtering," 1, Conf. Rec. of 20th IEEE Photovoltaic Spec. Conf. 273-276 (Sept. 26, 1988).
✓	CW	B.E. Sernelius et al., Band-Gap Tailoring of ZnO by Means of Heavy A1 Doping, ~~37~~, Physical Review B of Am. Phys. Soc., 10244-10248 ~~(1998).~~ pages June 15, 1988 Vol37, No.17,
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	DU	
	DV	
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EXAMINER: M. L. Sigler 5/23/03

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